



# SUNSYSTEM®

Energy from the sun

## SUNSYSTEM 50p Photovoltaic modules

Made in EU

Crystalline modules with fully positive tolerance.  
Yield guaranteed for 25 years.  
Individual flash test record for each module.

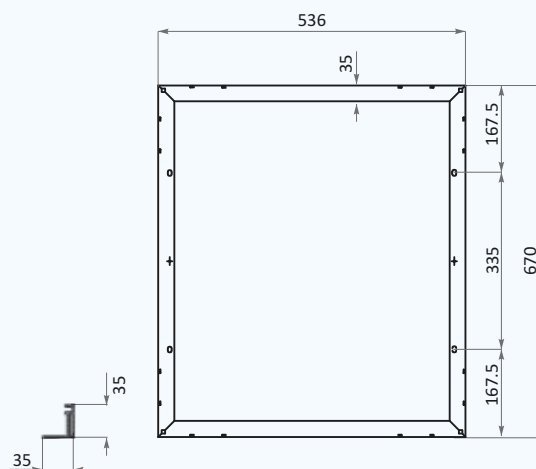
Electrical specifications:	
Maximum power Pmax	50 Wp
Tolerance	+ 3% - 0%
Voltage at max power Vmp	17,0 V
Current at max power Imp	2,94 A
Open circuit voltage Voc	21,6 V
Short circuit current Isc	3,25 A
Cell efficiency	13,1 %
Module efficiency	11,2 %

\* STC (Standard test conditions) : Irradiation 1000 W/m<sup>2</sup>,  
ambient temperature 25°C, Spectre AM 1.5

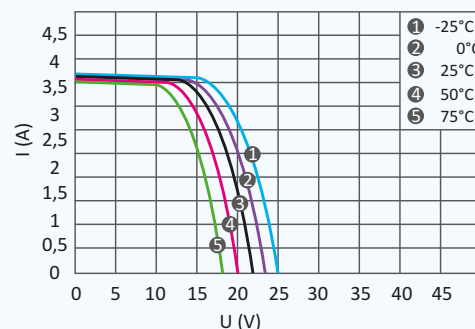
Physical specifications:	
Overall dimensions	670 x 536 x 35 mm
Number of cells	36 (4 x 9)
Size of cells	156 x 52 mm
Weight	6,0 kg
Type of cell	polycrystalline
Frame	aluminum
Junction box	TÜV certified
Back closing	TPT
Front closing	Tempered glass 3,2 mm
Length of cable	900 mm
Connector type	MC 4

Temperature coefficients:	
NOCT	48°C ± 2°C
Temp. coeff. of Pmax	- ( 0,5 ± 0,05 ) % / °C
Temp. coeff. of Vmp	- 0,38 % / °C
Temp. coeff. of Imp	+ 0,1 % / °C
Temp. coeff. of Voc	- ( 0,3 ± 0,05 ) % / °C
Temp. coeff. of Isc	+ 0,065 % / °C

Limitations:	
Max. system voltage	1000 V DC
Temperature range	-40°C - +85/ °C
Max. physical load	2400 Pa



I-V characteristic of module  
temperature dependence



Warranty and certificates:	
Workmanship and material	10 years
80% of the min.peak power	25 years
Certified in accord. with IEC 61215:2005 & EN 61730:2007	

